## **Fishery Bulletin**

## **CONTENTS**

Vol. 74, No. 2 April	1976
PERRIN, WILLIAM F., JAMES M. COE, and JAMES R. ZWEIFEL. Growth and reproduction of the spotted porpoise, Stenella attenuata, in the offshore eastern	
tropical Pacific	229
northern anchovy, Engraulis mordax, from southern California	271
of sonar mapping for pelagic stock assessment in the California Current area	281
GRIFFIN, WADE L., NEWTON J. WARDLAW, and JOHN P. NICHOLS. Economic and financial analysis of increasing costs in the Gulf shrimp fleet	301
LIVINGSTON, ROBERT J., GERARD J. KOBYLINSKI, FRANK G. LEWIS, III, and PETER F. SHERIDAN. Long-term fluctuations of epibenthic fish and invertebrate	
populations in Apalachicola Bay, Florida	311
HAYNES, EVAN. Description of zoeae of coonstripe shrimp, <i>Pandalus hypsinotus</i> , reared in the laboratory	323
CHITTENDEN, MARK E., JR. Present and historical spawning grounds and nurseries of American shad, <i>Alosa sapidissima</i> , in the Delaware River	343
LOUGH, R. GREGORY. Larval dynamics of the Dungeness crab, Cancer magister, off	
the central Oregon coast, 1970-71	353
fouling on artificial substrata in northern Puget Sound, Washington	377
Mexico	387
CRADDOCK, DONOVAN R. Effects of increased water temperature on Daphnia pulex	403
ABLE, K. W., and J. A. MUSICK. Life history, ecology, and behavior of <i>Liparis inquilinus</i> (Pisces: Cyclopteridae) associated with the sea scallop, <i>Placopecten ma-</i>	
gelanicus	409
feeding ecology of postlarval pinfish, Lagodon rhomboides, and spot, Leiostomus xanthurus	423
BREWER, GARY D. Thermal tolerance and resistance of the northern anchovy,  Engraulis mordax	433

(Continued on next page)

Seattle, Washington

## Contents - continued

## Notes

HARRELL, LEE W., ANTHONY J. NOVOTNY, MICHAEL H. SCHIEWE, and	
HAROLD O. HODGINS. Isolation and description of two vibrios pathogenic to	
Pacific salmon in Puget Sound, Washington	447
MAY, NELSON, LEE TRENT, and PAUL J. PRISTAS. Relation of fish catches in gill	
nets to frontal periods	449
LANSFORD, LAWRENCE M., CHARLES W. CAILLOUET, and KENNETH T.	
MARVIN. Phosphoglucomutase polymorphism in two penaeid shrimps, Penaeus	
brasiliensis and Penaeus aztecus subtilis	453
PERRIN, WILLIAM F. First record of the melon-headed whale, Peponocephala electra,	
in the eastern Pacific, with a summary of world distribution	457
CARLSON, H. RICHARD. Foods of juvenile sockeye salmon, Oncorhynchus nerka, in	
the inshore coastal waters of Bristol Bay, Alaska, 1966-67	458
LAIRD, CHAE E., ELIZABETH G. LEWIS, and PAUL A. HAEFNER, JR. Occurrence	
of two galatheid crustaceans, Munida forceps and Munidopsis bermudezi, in the	
Chesapeake Bight of the western North Atlantic Ocean	462
WEIS, JUDITH S. Effects of mercury, cadmium, and lead salts on regeneration and	
ecdysis in the fiddler crab, Uca pugilator	464
FUIMAN, LEE A. Notes on the early development of the sea raven, Hemitripterus	
	467
•	

Vol. 74, No. 1 was published on 8 April 1976.

The National Marine Fisheries Service (NMFS) does not approve, recommend or endorse any proprietary product or proprietary material mentioned in this publication. No reference shall be made to MNFS, or to this publication furnished by NMFS, in any advertising or sales promotion which would indicate or imply that NMFS approves, recommends or endorses any proprietary product or proprietary material mentioned herein, or which has as its purpose an intent to cause directly or indirectly the advertised product to be used or purchased because of this NMFS publication.